Amendments to the Claims

- 1. (Amended) A vector system for producing infectious virus particles having a characteristic of AAV4 comprising: at least one vector comprising [[a]]an isolated nucleic acid encoding an AAV4 capsid protein.
- 2. (Original) The vector system of claim 1 A vector system for producing infectious virus particles comprising two vectors, at least one vector comprising a nucleic acid encoding an AAV4 capsid protein.
- 3. (Original) The vector system of claim 2, wherein the first vector comprises a nucleic acid encoding an AAV4 capsid protein and the second vector comprises a pair of AAV inverted terminal repeats.
- 4. (Original) The vector system of claim 2, wherein the first vector comprises a nucleic acid encoding an AAV4 Rep protein and the second vector comprises a pair of AAV inverted terminal repeats.
- 5. (Original) The vector system of claim 2, wherein the first vector comprises a nucleic acid encoding an AAV4 Rep protein and a nucleic acid encoding an AAV4 capsid protein and the second vector comprises a pair of AAV inverted terminal repeats.
- 6. (Original) The vector system according to claim 3, wherein the second vector comprises a pair of AAV2 inverted terminal repeats
- 7. (Original) The vector system according to claim 3, wherein the second vector comprises a pair of AAV3 inverted terminal repeats.
- 8. (Original) The vector system according to claim 3, wherein the second vector comprises a pair of AAV4 inverted terminal repeats.

- 9. (Amended) The vector system according to claim 8, wherein the AAV4 the AAV4 inverted terminal repeats comprise a Rep protein binding site having four "GAGC" repeats, wherein in the fourth nucleotide in the first two "GAGC" repeats is a T rather than a C.
- 10. (Original) The vector system according to claim 9, wherein the AAV4 inverted terminal repeats comprise the nucleotide sequence set forth in SEQ ID NO:6.
- 11. (Original) The vector system according to claim 9, wherein the AAV4 inverted terminal repeats comprise the nucleotide sequence set forth in SEQ ID NO:20.
- 12. (Original) The vector system according to claim 3, wherein the second vector comprises a pair of AAV5 inverted terminal repeats.
- 13. (Original) The vector system of claim 3, wherein the first vector further comprises a nucleic acid encoding an AAV2 Rep protein.
- 14. (Original) The vector system of claim 3, wherein the first vector further comprises a nucleic acid encoding an AAV3 Rep protein.
- 15. (Original) The vector system of claim 3, wherein the first vector further comprises a nucleic acid encoding an AAV4 Rep protein.
- 16. (Original) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has the amino acid sequence set forth in SEQ ID NO:2.
- 17. (Amended) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has about 95% homology with the amino acid sequence set forth in SEQ ID NO:2, wherein the vector system replicates.

- 18. (Original) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has the amino acid sequence set forth in SEQ ID NO:8.
- 19. (Amended) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has about 95% homology with the amino acid sequence set forth in SEQ ID NO:8, wherein the vector system replicates.
- 20. (Original) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has the amino acid sequence set forth in SEQ ID NO:9.
- 21. (Amended) The vector system of claim 15 wherein the adeno-associated virus 4 Rep protein has about 95% homology with the amino acid sequence set forth in SEQ ID NO:9, wherein the vector system replicates.
- 22. (Original) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has the amino acid sequence set forth in SEQ ID NO:10.
- 23. (Amended) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has about 95% homology with the amino acid sequence set forth in SEQ ID NO:10, wherein the vector system replicates.
- 24. (Original) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has the amino acid sequence set forth in SEQ ID NO:11.
- 25. (Amended) The vector system of claim 15, wherein the adeno-associated virus 4 Rep protein has about 95% homology with the amino acid sequence set forth in SEQ ID NO:11, wherein the vector system replicates.

- 26. (Original) The vector system of claim 3, wherein the first vector further comprises a nucleic acid encoding an AAV5 Rep protein.
- 27. (Original) The vector system according to claim 4, wherein the first vector further comprises a nucleic acid encoding an AAV2 capsid protein.
- 28. (Original) The vector system according to claim 4, wherein the first vector further comprises a nucleic acid encoding an AAV3 capsid protein.
- 29. (Original) The vector system according to claim 4, wherein the first vector further comprises a nucleic acid encoding an AAV4 capsid protein.
- 30. (Original) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has the amino acid sequence set forth in SEQ ID NO:4.
- 31. (Original) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has the amino acid sequence defined by amino acids 438-601 set forth in SEQ ID NO:4.
- 32. (Amended) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has about 98% homology to the amino acid sequence set forth in SEQ ID NO:4, wherein the vector system produces AAV particles.
- 33. (Original) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has the amino acid sequence set forth in SEQ ID NO:16.
- 34. (Amended) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has about 98% homology to the amino acid sequence set forth in SEQ ID NO:16, wherein the vector system produces AAV particles.

- 35. (Original) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has the amino acid sequence set forth in SEQ ID NO:18.
- 36. (Amended) The vector system of claim 29, wherein the adeno-associated virus 4 capsid protein has about 98% homology to the amino acid sequence set forth in SEQ ID NO:18, wherein the vector system produces AAV particles.
- 37. (Original) The vector system according to claim 4, wherein the first vector further comprises a nucleic acid encoding an AAV5 capsid protein.
- 38. (Original) A vector system according to claim 3, wherein the second vector further comprises a promoter between the inverted terminal repeats.
- 39. (Original) A vector system according to claim 38, wherein the promoter is functionally linked to an exogenous nucleic acid.
- 40. (Original) The vector system according to claim 2, wherein the system comprises a series of vectors.
- 41. (Original) A method of making a recombinant particle for delivering an exogenous nucleic acid to a cell, comprising delivering to a cell having helper function the vectors of the vector system of claim 39.
- 42. (Original) The method of claim 41, wherein the helper function is provided by a helper virus.